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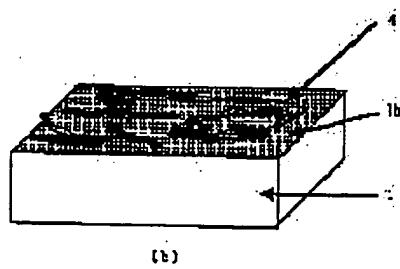
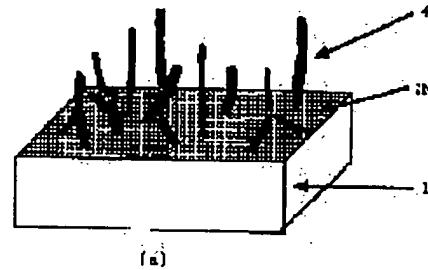
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(54) PRODUCTION OF CARBON NANOTUBE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a method capable of growing a carbon nanotube uniform in characteristic and directional property at a relatively low temp., andunnecessitating a purifying treatment on a substrate.

SOLUTION: A growth starting area of the carbon nanotube 4 is previously formed on the surface 1b of the substrate 1 and a gaseous starting material containing a starting material for introducing carbon is introduced into a reaction vessel in a state in which the substrate is arranged in the reaction vessel, and the carbon nanotube is formed on the substrate by further generating a plasma by AC glow discharge in the reaction vessel, or the carbon nanotube is grown in narrow pores from growth nuclei at a bottom part of the narrow pores by providing the narrow pores in which the growth nuclei are arranged, and controlling the growth direction at the bottom of the substrate.



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